What is claimed is:

1	1	A hoot	nimle.	assembly	L/ COMI	aricina.
1		A near	SHIK	assembl	v COIIII	ULISIIIE.
•	- •				,1	

- 2 a heat conduit; and
- a block formed of a thermally conductive material having a first thermal
- 4 conductivity,
- 5 the heat conduit extending through a substantial portion of the block,
- 6 the heat conduit having a second thermal conductivity greater than the first
- 7 thermal conductivity.
- 1 2. The heat sink assembly of claim 1, wherein the first thermal conductivity is
- 2 greater than or equal to about 10.
- 1 3. The heat sink assembly of claim 2, wherein the first thermal conductivity is less
- 2 than or equal to about 100.
- 1 4. The heat sink assembly of claim 1, wherein the heat conduit is adapted to transfer
- 2 heat from a heat source along its length.
- 1 5. The heat sink assembly of claim 4, wherein the block is adapted to transfer heat
- 2 away from the heat conduit.
- 1 6. The heat sink assembly of claim 1, wherein the block has a first segment on one
- 2 side of a portion of the heat conduit, and the block has a second segment on another side
- 3 of the portion of the heat conduit,
- 4 the first segment having a first heat conduction distance to dissipate heat from the
- 5 heat conduit, and the second segment having a second heat conduction distance to
- 6 dissipate heat from the heat conduit.
- 1 7. The heat sink assembly of claim 6, wherein the first and second heat conduction
- 2 distances are substantially the same.

- 1 8. The heat sink assembly of claim 7, further comprising a second heat conduit
- 2 extending through another substantial portion of the block.
- 1 9. The heat sink assembly of claim 8, wherein the block has a third segment on one
- 2 side of a portion of the second heat conduit, and the block has a fourth segment on
- another side of the portion of the second heat conduit,
- 4 the third segment having a third heat conduction distance to dissipate heat from
- 5 the second heat conduit, and the fourth segment having a fourth heat conduction distance
- 6 to dissipate heat from the second heat conduit.
- 1 10. The heat sink assembly of claim 9, wherein each of the first, second, third, and
- 2 fourth segments have airflow channels extending therethrough.
- 1 11. The heat sink assembly of claim 5, wherein the block has airflow channels to
- 2 provide surfaces on the block exposed to airflow.
- 1 12. The heat sink assembly of claim 1, wherein the thermally conductive material
- 2 comprises a non-metallic material.
- 1 13. The heat sink assembly of claim 1, wherein the thermally conductive material
- 2 comprises a thermally conductive polymer.
- 1 14. The heat sink assembly of claim 13, wherein the heat conduit comprises a heat
- 2 pipe.
- 1 15. The heat sink assembly of claim 13, wherein the heat conduit comprises a tubular
- 2 structure having a bore through which fluid is adapted to flow to transfer heat.
- 1 16. The heat sink assembly of claim 1, further comprising plural other heat conduits
- 2 extending through respective substantial portions of the block.

- 1 17. The heat sink assembly of claim 1, wherein the heat conduit has a first portion and
- 2 a second portion angled with respect to the first portion, the first portion adapted to
- 3 contact a surface of a heat source.
- 1 18. The heat sink assembly of claim 17, wherein the block has a vertical axis and a
- 2 horizontal plane formed by two axes, the first portion of the heat conduit extending
- 3 generally along the horizontal plane, and the second portion of the heat conduit extending
- 4 generally along the vertical axis.
- 1 19. The heat sink assembly of claim 18, wherein the second portion has a shape
- 2 selected from the group consisting of: generally straight, generally S-shaped, and shaped
- 3 as a loop.
- 1 20. The heat sink assembly of claim 18, further comprising a second heat conduit
- 2 extending through another portion of the block, the second heat conduit having a first
- 3 portion extending generally along the horizontal plane and a second portion extending
- 4 generally along the vertical axis.
- 1 21. The heat sink assembly of claim 18, wherein the block has a first side edge, the
- 2 second portion of the heat conduit a first distance from the first side edge, the first
- 3 distance being a heat conduction distance of a first segment of the block, the first segment
- 4 of the block to dissipate heat from the heat conduit.
- 1 22. The heat sink assembly of 21, further comprising a second heat conduit extending
- 2 through another substantial portion of the block, the second heat conduit having a first
- 3 portion extending generally along the horizontal axis and a second portion extending
- 4 generally along the vertical axis, the block having a second side edge, the second portion
- 5 of the second heat conduit a second distance from the second edge, the second distance
- 6 being a second heat conduction distance of a second segment of the block, the second
- 7 segment to dissipate heat from the second heat conduit.

- 1 23. The heat sink assembly of claim 22, wherein the block has airflow channels
- 2 through at least the first and second segments.
- 1 24. A method of dissipating heat from a component, comprising:
- 2 providing a block formed of a thermally conductive material having a first
- 3 thermal conductivity; and
- extending an elongated heat conduit through a substantial portion of the block, the
- 5 elongated heat conduit having a second thermal conductivity greater than the first thermal
- 6 conductivity.
- 1 25. The method of claim 24, wherein extending the elongated heat conduit comprises
- 2 extending a heat pipe.
- 1 26. The method of claim 24, wherein providing the block formed of the thermally
- 2 conductive material comprises providing the block formed of a thermally conductive
- 3 polymer.
- 1 27. The method of claim 24, further comprising extending another elongated heat
- 2 conduit through another substantial portion of the block.
- 1 28. The method of claim 24, further comprising:
- 2 providing a first segment of the block on one side of a portion of the elongated
- 3 heat conduit to dissipate heat from the elongated heat conduit; and
- 4 providing a second segment of the block on another side of the portion of the
- 5 elongated heat conduit to dissipate heat from the elongated heat conduit.
- 1 29. The method of claim 28, further comprising providing airflow channels through
- 2 the first and second segments.
- 1 30. The method of claim 29, wherein the block has a horizontal axis and a vertical
- 2 axis, the portion of the elongated heat conduit extending generally along the vertical axis.

1 31. A system comprising	ıg:
---------------------------	-----

- 2 a component; and
- a heat sink thermally contacted to the component,
- the heat sink having a block formed of a thermally conductive material, the heat sink having a first segment and a second segment,
- 6 the heat sink further having a heat conduit extending through the block between
- 7 the first and second segments, the first segment to transfer heat away from the heat
- 8 conduit in a first direction, and the second segment to transfer heat away from the heat
- 9 conduit in a second direction.
- 1 32. The system of claim 31, wherein the heat conduit comprises a heat pipe.
- 1 33. The system of claim 32, wherein the thermally conductive material comprises
- 2 thermally conductive polymer.
- 1 34. The system of claim 31, wherein the thermally conductive material has a first
- 2 thermal conductivity, and the heat conduit has a second thermal conductivity greater than
- 3 the first thermal conductivity.
- 1 35. The system of claim 34, wherein the first thermal conductivity is in a range
- 2 between 10 and 100.
- 1 36. The system of claim 31, wherein the heat sink further comprises airflow channels
- 2 extending through the first and second segments.
- 1 37. The system of claim 31, wherein the block further has a third segment and a
- 2 fourth segment, the heat sink further having a second heat conduit extending between the
- 3 third and fourth segments.

- 1 38. The system of claim 37, wherein the thermally conductive material comprises
- 2 thermally conductive polymer.

Sub.

39. The system of claim, wherein the heat conduits comprise heat pipes.